

ANTIBODY, ANTIBODY FORMING CELL AND PRODUCTION OF ANTIBODY

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Abstract

PURPOSE: To obtain high performance measurable in high sensitivity by making pseudo-antigen in which alkyl group is substituted by H-atom to immunogen by chemically bonding with protein.

CONSTITUTION: N-Alkyl group in antigen of low-molecular weight compound having ≤ 2000 molecular weight such as methamphetamine (MA) expressed by formula I is substituted with H-atom to obtain amphetamine (AP) expressed by formula II and aminobutyl group is introduced into said amphetamine as spacer to obtain antigen derivative (ABAP) expressed by formula III. Next, said ABAP is bonded with hemocyanin (KLH) derived from false limpet as carrier protein to obtain immunogen AP-KLH. Then, said immunogen is injected into animal such as system A/J of mouse and antibody such as anti-MA antibody is produced in blood serum. Cell of sensitized animal such as said immuno-injected mouse is fused with myeloma cell to obtain antibody forming cell and said antibody forming cell is cultured in medium, as necessary, then resultant cultured supernatant is purified to collect monoclonal antibody.